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AMENDMENTS TO THE CLAIMS

Please amend the claims as they currently stand so that they are in accord with the following listing of the claims:

Claim 1 (currently amended): A stimulation arrangement, comprising:

a stimulation unit to deliver electrical stimulation pulses for [[the]] stimulating[[on]] [[of]] body tissue[[,]]; and

an evaluation unit to receive <u>at least one</u> electrical signal[[s]] in conjunction with the delivery of a stimulation pulse and to evaluate [[same]]said received electrical signal for checking stimulation success, <u>and</u> wherein the evaluation unit detects [[such]] signal features in the received <u>electrical</u> signal that characterize a case of lack of stimulation success, and delivers a corresponding output signal.

Claim 2 (currently amended): The stimulation arrangement of claim 1, wherein the evaluation unit associates the received electrical signal with a stimulation pulse in respect of time and detects a feature of a polarization artifact as a signal feature in the received <u>electrical</u> signal.

Claim 3 (currently amended): The stimulation arrangement of claim 2, wherein the evaluation unit evaluates the <u>received electrical</u> signal measured after the expiry of a blanking period after the delivery of a stimulation pulse [[and for the purposes of detecting a feature of a polarization artifact]] to determine a first integral (INGR1) of the measured signal over [[the]]<u>a first</u> time <u>interval</u> in which the <u>measured signal</u> [[measured after the blanking period]] extends above [[the signal amplitude]] <u>a blanking level measured</u> during the blanking period.

Claim 4 (currently amended): The stimulation arrangement of claim 3, wherein the evaluation unit determines a second integral (INGR2) of the measured signal over a second [[period of]] time <u>interval</u> beginning with an end of said first time interval and extending to [[the moment in time at which the first integral ends, and which ends with the]]<u>an</u> end of a predetermined time window [[which begins with]]<u>whose beginning is [[the]]an</u> end of the blanking period.

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Claim 5 (currently amended): The stimulation arrangement of claim 3, wherein the received

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electrical signal received after the delivery of [[a]]said stimulation pulse is received in [[the]]a

form of time-discrete sample values, and wherein the evaluation unit further comprises a counter

that determines [[the]]a number (CNT1) of said sample values of the received electrical signal,

which fall into the first time interval over which the first integral is formed.

Claim 6 (currently amended): The stimulation arrangement of claim 4, wherein the evaluation

unit forms an indicator flag (CROSS) having a binary value that depends on whether the

measured signal during the [[period for determining the second integral]]second time interval

crosses the [[signal amplitude which obtains during the blanking period]] measured blanking

level.

Claim 7 (cancelled)

Claim 8 (currently amended): The stimulation arrangement of claim [[7]]6, wherein

the evaluation unit continuously compares [[a]]said sample values of said received electrical

signal to a limit value (zn) for [[the]] negative signal amplitude and delivers a signal that

characterizes a stimulation success in the case of the limit value (zn) being negatively exceeded

by at least one of said sample values.

Claim 9 (cancelled)

Claim 10 (cancelled)

Claim 11 (cancelled)

Claim 12 (cancelled)

Claim 13 (cancelled)

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Claim 14 (currently amended): The stimulation arrangement of claim 1, wherein the evaluation unit continuously compares <u>sample values of said</u> [[a]] received electrical signal to a limit value (zn) for [[the]] negative signal amplitude and delivers a signal which characterizes a stimulation success in the case of the limit value (zn) being negatively exceeded by at least one of said sample values.

Claim 15 (currently amended): The stimulation arrangement of claim 2, wherein the evaluation unit continuously compares <u>sample values of said</u> [[a]] received electrical signal to a limit value (zn) for [[the]] negative signal amplitude and delivers a signal which characterizes a stimulation success in the case of the limit value (zn) being negatively exceeded by at least one of said sample values.

Claim 16 (currently amended): The stimulation arrangement of claim 3, wherein the evaluation unit continuously compares <u>sample values of said</u> [[a]] received electrical signal to a limit value (zn) for [[the]] negative signal amplitude and delivers a signal which characterizes a stimulation success in the case of the limit value (zn) being negatively exceeded by at least one of said sample values.

Claim 17 (currently amended): The stimulation arrangement of claim 4, wherein the evaluation unit continuously compares <u>sample values of said</u> [[a]] received electrical signal to a limit value (zn) for [[the]] negative signal amplitude and delivers a signal which characterizes a stimulation success in the case of the limit value (zn) being negatively exceeded by at least one of said sample values.

Claim 18 (currently amended): The stimulation arrangement of claim 5, wherein the evaluation unit continuously compares <u>said sample values of said [[a]]</u> received electrical signal to a limit value (zn) for [[the]] negative signal amplitude and delivers a signal which characterizes a stimulation success in the case of the limit value (zn) being negatively exceeded <u>by at least one of said sample values</u>.

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Claim 19-25 (cancelled)

Claim 26 (new): The stimulation arrangement of claim 6 wherein an area value (AREA) is

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calculated as a sum of said INGR1 and said INGR2 if said CNT1 is greater than a predetermined

sample number limit value (w1), and wherein said area value (AREA) is calculated as said

INGR2 if said CNT1 is less than or equal to said w1.

Claim 27 (new): The stimulation arrangement of claim 26 wherein said evaluation unit

delivers a signal that characterizes a lack of stimulation success if said AREA is determined to be

less than a first predetermined area limit value (a1).

Claim 28 (new): The stimulation arrangement of claim 27 wherein said evaluation unit

delivers a signal that characterizes a lack of stimulation success if said CNT1 is greater than said

wl and if a maximum positive sample value (MAX POS) of said measured signal, measured at

least x samples after said blanking period, is less than a predetermined amplitude limit value

(zp), and where x is a predetermined number of samples.

Claim 29 (new): The stimulation arrangement of claim 28 wherein said evaluation unit

delivers a signal that characterizes a stimulation success if said CNT1 is greater than said w1 and

if said maximum positive sample value (MAX POS) of said measured signal, measured at least

x samples after said blanking period, is greater than or equal to said predetermined amplitude

limit value (zp).

Claim 30 (new): The stimulation arrangement of claim 29 wherein said evaluation unit

delivers a signal that characterizes a stimulation success if said AREA is greater than a second

predetermined area limit value (a2).

Claim 31 (new): The stimulation arrangement of claim 30 wherein said evaluation unit

delivers a signal that characterizes a stimulation success if said CROSS is equal to a binary value

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indicating that said measured signal has crossed said measured blanking level during said second time interval.

Claim 32 (new): The stimulation arrangement of claim 31 wherein said evaluation unit delivers a signal that characterizes a lack of stimulation success.